

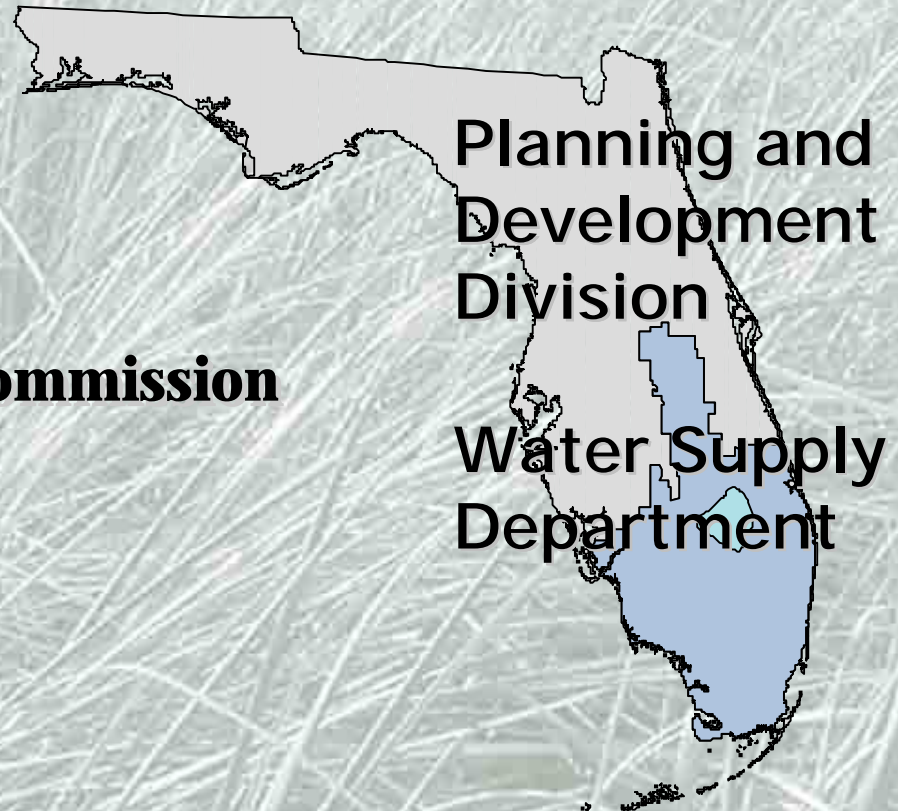
CERP Implementation Schedule

LEC Water Supply Plan Implications

Water Resources Advisory Commission

August 2, 2001

Matthew J. Morrison



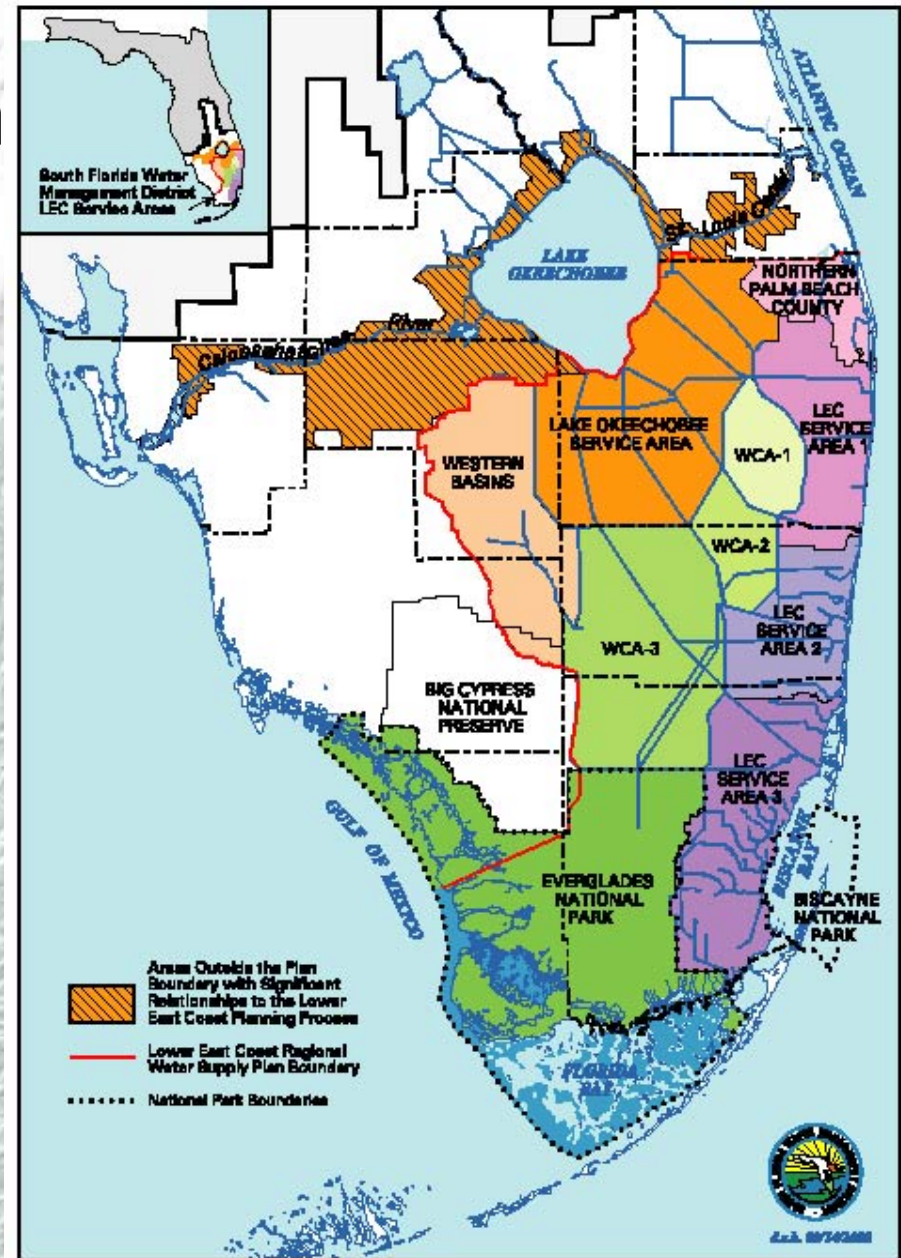
LEC Planning Region

Study area contains:

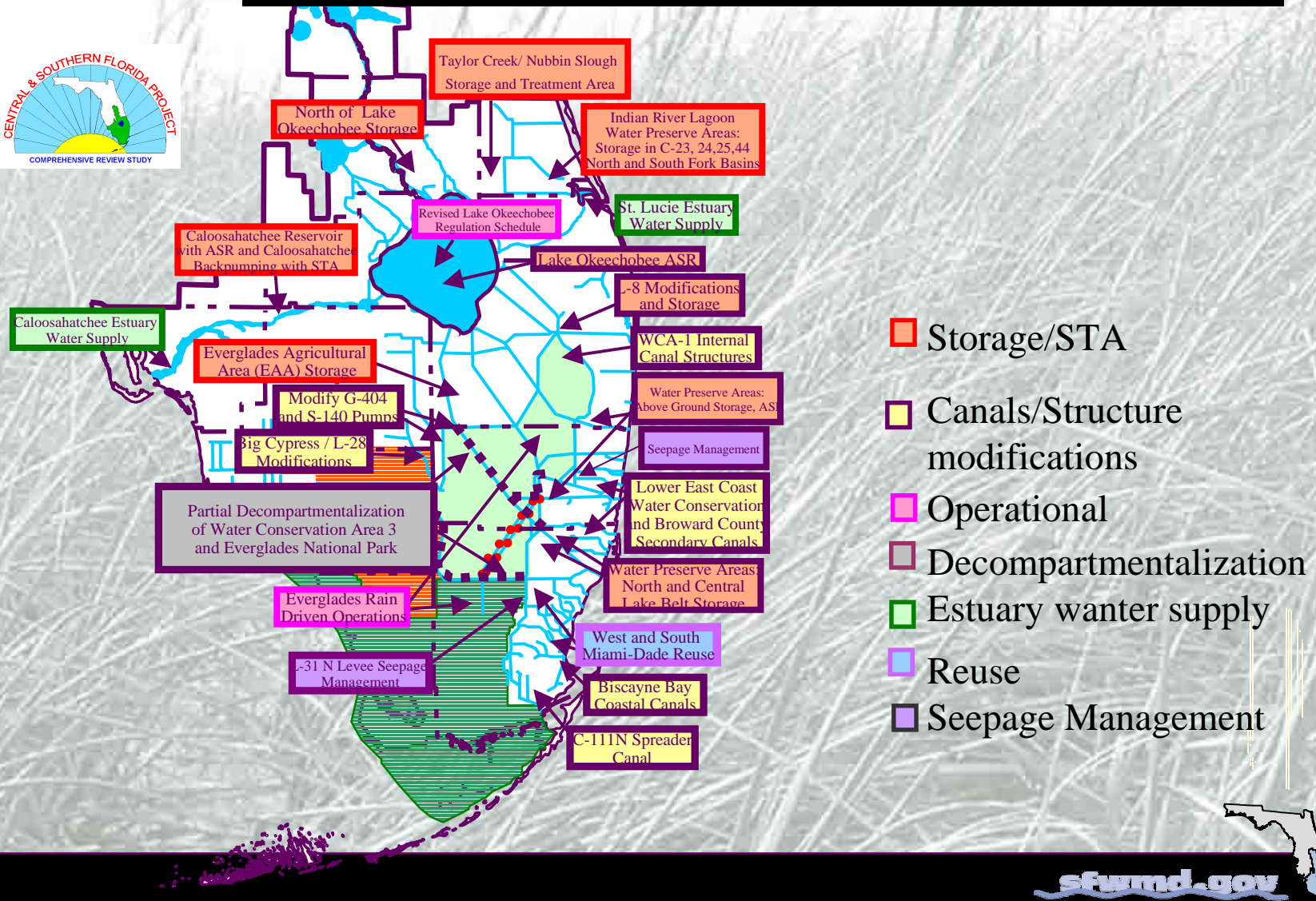
- ~ 9,000 sq. mi.
- 1995 population - 4,756,000
- 2020 population - 6,952,000

Includes:

- Miami-Dade County
- Broward County
- Palm Beach County
- Most of Monroe Counties
- Parts of Lee, Collier, Hendry, Glades, Martin & Okeechobee counties



Plan CERP Components



Period of Analysis

- **CERP: 50-years**
- **Lower East Coast Regional Water Supply Plan:**
 - 20-years (Section 373.0361, F.S)
 - Incremental Analysis
 - 2005
 - 2010
 - 2015
 - 2020
 - Gradual performance improvement for all users

Storage



Component	2005	2010	2015	2020	schedule change/ completion date
C-43 (Caloosahatchee) Basin		X	X	X	2009/2011
C-44 (St. Lucie) Basin Storage Reservoir		X	X	X	
North of Lake Okeechobee Reservoir		X	X	X	2015/2010
EAA Reservoirs-Phase I (Ag. Supply+one 'surge tank')		X	X	X	
EAA Reservoirs-Phase II (second 'surge tank')			X	X	
C-51 & Southern L-8 reservoir			X	X	
Agricultural Reserve Reservoir			X	X	
Site-1 (Hillsboro Impoundment)		X	X	X	
C-9 Impoundment		X	X	X	
C-11 Impoundment		X	X	X	
North Lakebelt Storage Area				50%	
Central Lakebelt Storage Area				50%	
Bird-Drive Recharge Area			X	X	

ASR



Component	2005	2010	2015	2020	schedule change/ completion date
C-43 (Caloosahatchee) ASR			X	X	2012/2018
Lake Okeechobee ASR			X	33%	2015/2026
WPB Catchment Area ASR			X	X	
C-51 Regional Groundwater ASR			X	X	2015/2021
Ag. Reserve Reservoir ASR			X	X	2013/2019
Hillsboro Impoundment (SITE-1) ASR			X	X	2014/2019
Service Area-3 Utility ASR	X	X	X	X	



Seepage Management

Component	2005	2010	2015	2020	schedule change/ completion date
WCA-3A & 3B Seepage Management		X	X	X	
L-31 Levee Seepage Management & Relocation		X	X	X	2010/2006
S-356 Structures		X	X	X	2007/2013



Everglades Protection Area

Component	2005	2010	2015	2020	schedule change/ completion date
Reroute Miami-Dade Water Supply		X	X	X	
WCA-3 Decompartmentalization & Sheetflow Enhancement (Phase I)		X	X	X	
WCA-3 Decompartmentalization & Sheetflow Enhancement (Phase II)				X	
Additional S-345 Structures (L-67A)		X	X	X	2009/2014
WCA-1 Internal Structures	X	X	X	X	2003/2007
MODWATER	X	X			
C-111 Project	X	X	X	X	

Lower East Coast Region



Component	2005	2010	2015	2020	schedule change/ completion date
LEC Utility Water Conservation					
L-8 Basin Modifications			X	X	
Broward County Secondary Canal System		X	X	X	
C-51 Backpumping & Treatment		X	X	X	
C-17 Backpumping & Treatment		X	X	X	
C-4 Divide Structure	X	X	X	X	
C-111 N Spreader		X	X	X	
Biscayne Bay Coastal Wetlands			X	X	2020/2015
West Miami-Dade Reuse				50%	
Water Preserve Area (WPA) Projects		X	X	X	

Water Resource Development Implications

- reduction in ASR carry forward storage
- re-run/optimize model & sensitivity analysis
- revisit LEC Regional Water Supply Plans 2005
 - ID Water Resource Development Projects
 - ID Water Supply Development Projects

Water Resource Development Contingencies

- funding increase in alternative water supply
- conservation and public outreach
 - mobile irrigation labs
- wastewater reuse
- seawater reverse osmosis
- other....